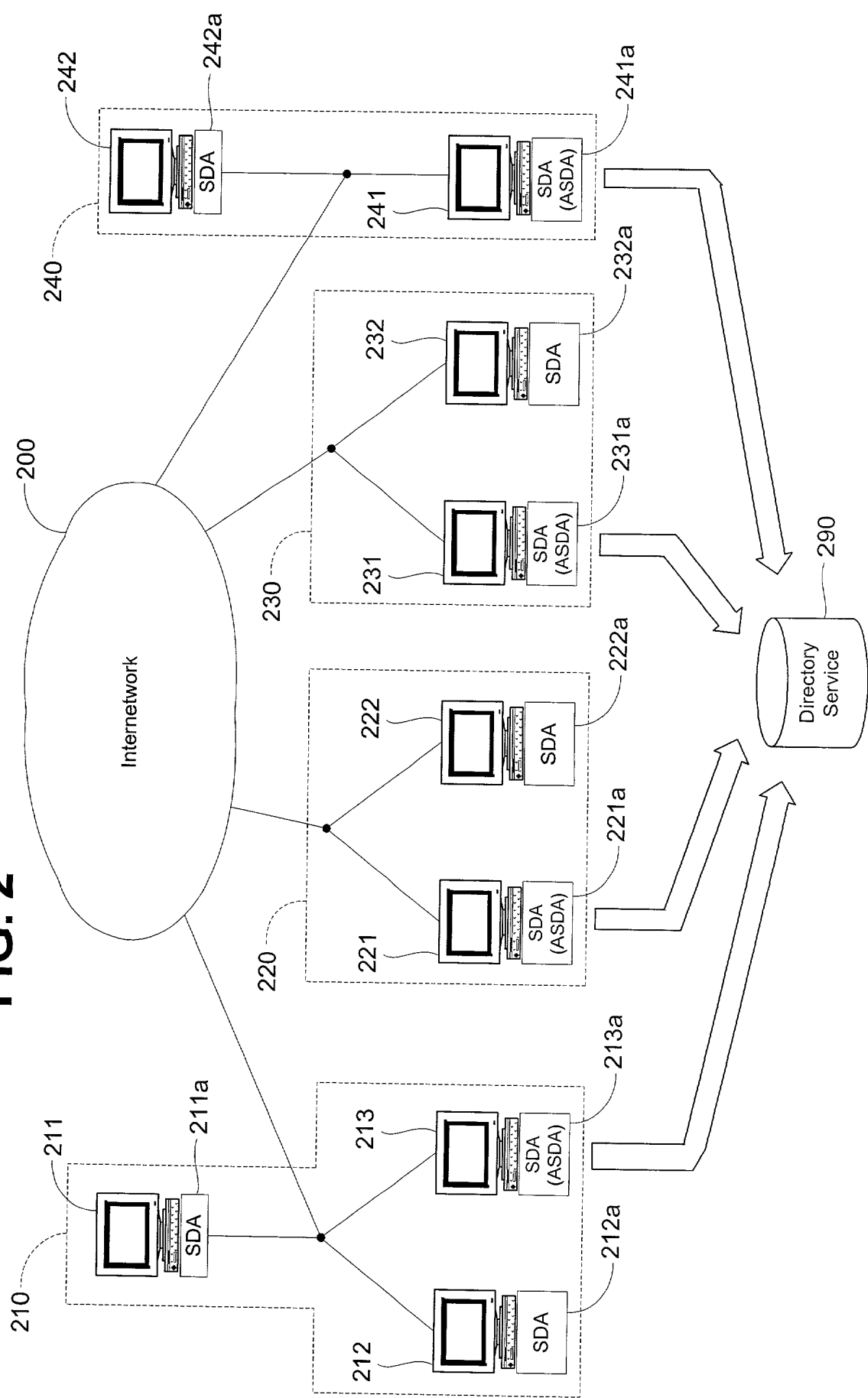


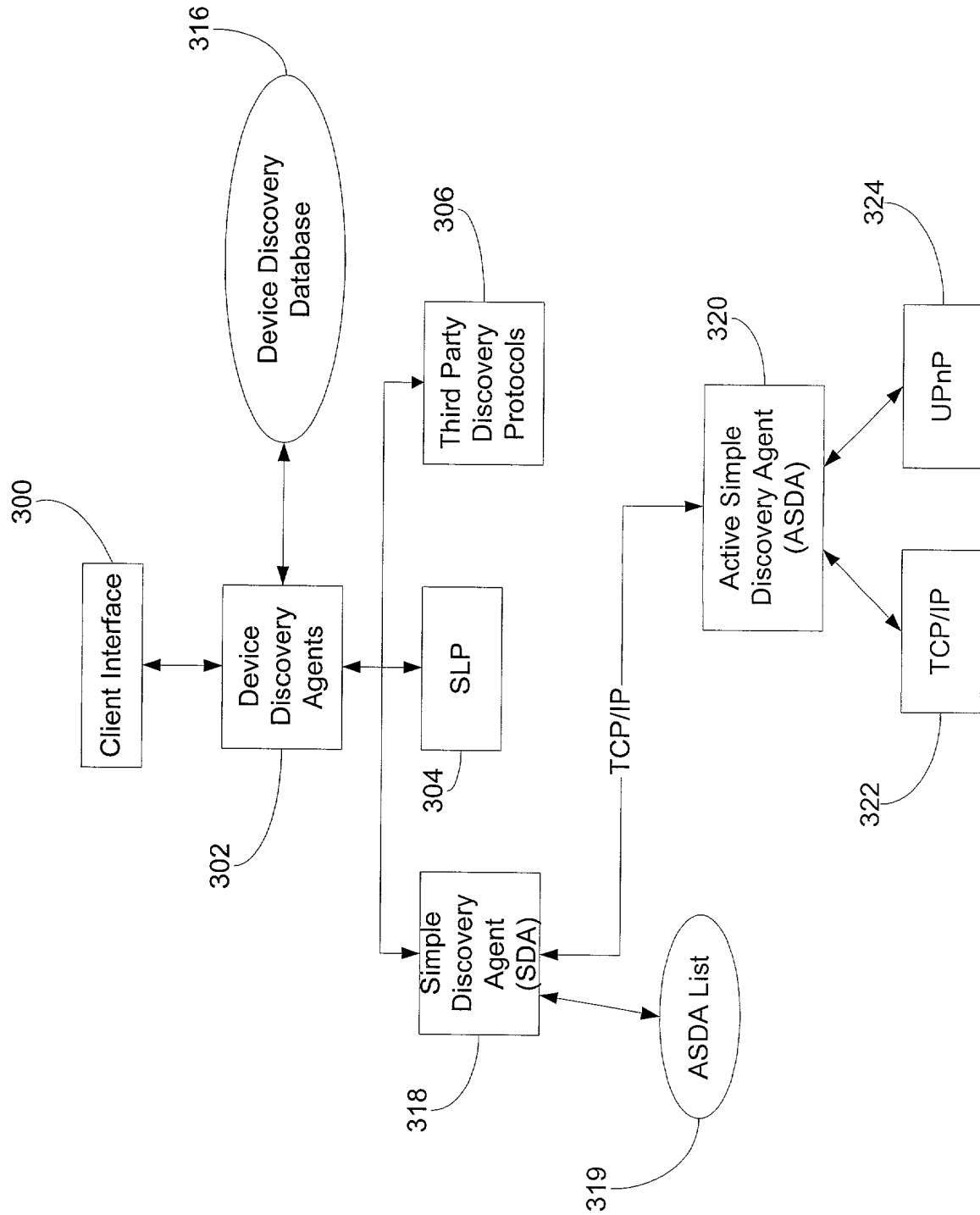
FIG. 1

FIG. 2



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FIG. 3



410

```
<SDA List>
<SDA >
  <Subnet> 3.2.0.0 </Subnet>
  <IPAddress> 3.2.5.6 </IPAddress>
</SDA >

<SDA >
  <Subnet> 3.3.0.0 </Subnet>
  <IPAddress> 3.3.2.5 </IPAddress>
</SDA >

<SDA >
  <Subnet> 3.4.0.0 </Subnet>
  <IPAddress> 3.4.5.3 </IPAddress>
</SDA >
</SDA List>
```

FIG. 4

US 2006/0111441 A1
May 18, 2006
Leydig, Voit & Mayer, Ltd.
Attorneys for the Applicant

Message Types

Message	Message Source	Message Destination	Message Type
501 WHO_IS_ASDA	Resource	Subnet having the resource	Multicast
	ASDA	Adjacent subnets	Multicast
502 ASDA_AD	ASDA	Subnet having the ASDA	Multicast
	Neighbor ASDA	Originating ASDA	Unicast
503 SDA_WILLING	SDA	Subnet	Multicast
	Resource	ASDA	Unicast
504 SEARCH_DEVICE	ASDA	Neighbor ASDA	Unicast
	Resource	Directory Service	Unicast
505 FOUND_DEVICE	ASDA	Resource	Unicast
	Directory Service	Resource	Unicast

FIG. 5a

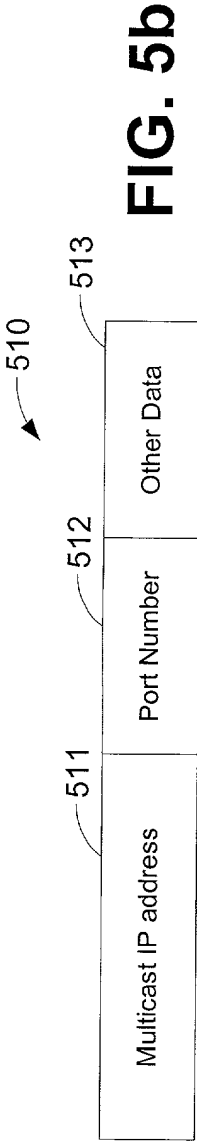


FIG. 5b

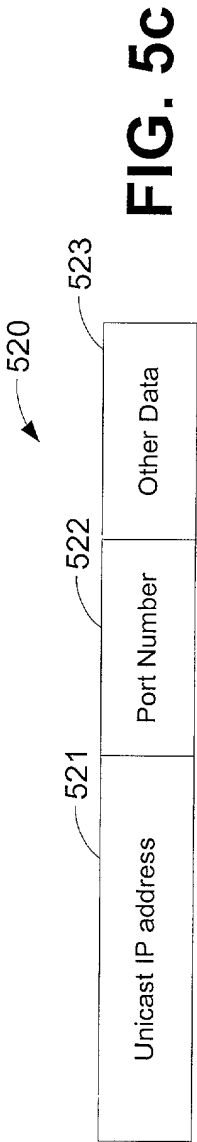


FIG. 5c

FIG. 5d

Administrative Messages															
551	<table><tr><th>Name</th><th>Parameter</th></tr><tr><td>GET_VERSION REQ</td><td>(GUID, ReID)</td></tr><tr><td>GET_VERSION RESP</td><td>(GUID, ReID, INT Major, INT Minor)</td></tr><tr><td>HEARTBEAT REQ</td><td>(GUID, ReqID)</td></tr><tr><td>HEARTBEAT RESP</td><td>(GUID, ReqID)</td></tr><tr><td>SHUTDOWN REQ</td><td>(GUID, ReqID)</td></tr><tr><td>SHUTDOWN RESP</td><td>(GUID, ReqID)</td></tr></table>	Name	Parameter	GET_VERSION REQ	(GUID, ReID)	GET_VERSION RESP	(GUID, ReID, INT Major, INT Minor)	HEARTBEAT REQ	(GUID, ReqID)	HEARTBEAT RESP	(GUID, ReqID)	SHUTDOWN REQ	(GUID, ReqID)	SHUTDOWN RESP	(GUID, ReqID)
Name	Parameter														
GET_VERSION REQ	(GUID, ReID)														
GET_VERSION RESP	(GUID, ReID, INT Major, INT Minor)														
HEARTBEAT REQ	(GUID, ReqID)														
HEARTBEAT RESP	(GUID, ReqID)														
SHUTDOWN REQ	(GUID, ReqID)														
SHUTDOWN RESP	(GUID, ReqID)														

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Functional Message List	
Name	Parameters
572 REGISTER NOTIFICATION REQ	(GUID, ReID, GUID NotificationID, BOOL bSecure, STRING SubnetScope)
574 REGISTER NOTIFICATION RESP	(GUID, ReID, INT Mode, ErrorEnum ErrorCode, STRING ErrorDescription)
575 PROGRESS REQ	(GUID, ReqID, INT ProgressPercentage)
576 PROGRESS RESP	(GUID, ReID, INT Mode, ErrorEnum ErrorCode, STRING ErrorDescription)
577 SEARCH DEVICE REQ	GUID, ReID, GUID SearchID, BOOL bSecure, STRING SubnetScope
578 SEARCH DEVICE RESP	(GUID, ReID, INT Mode, ErrorEnum ErrorCode, STRING ErrorDescription)
579 REMOVE REQUEST REQ	(GUID, ReID, GUID NotificationID)
580 REMOVE REQUEST RESP	(GUID, ReID, INT Mode, ErrorEnum ErrorCode, STRING ErrorDescription)
581 NEW DEVICE REQ	(GUID, ReID, GUID NotificationID, NewDeviceStruct Device)
582 NEW DEVICE RESP	(GUID ReqID, ErrorEnum ErrorCode, STRING ErrorDescription)
583 FOUND DEVICE REQ	(GUID ReqID, NewDeviceStruct Device)
584 FOUND DEVICE RESP	(GUID ReqID, ErrorEnum ErrorCode, STRING ErrorDescription)

FIG. 5e

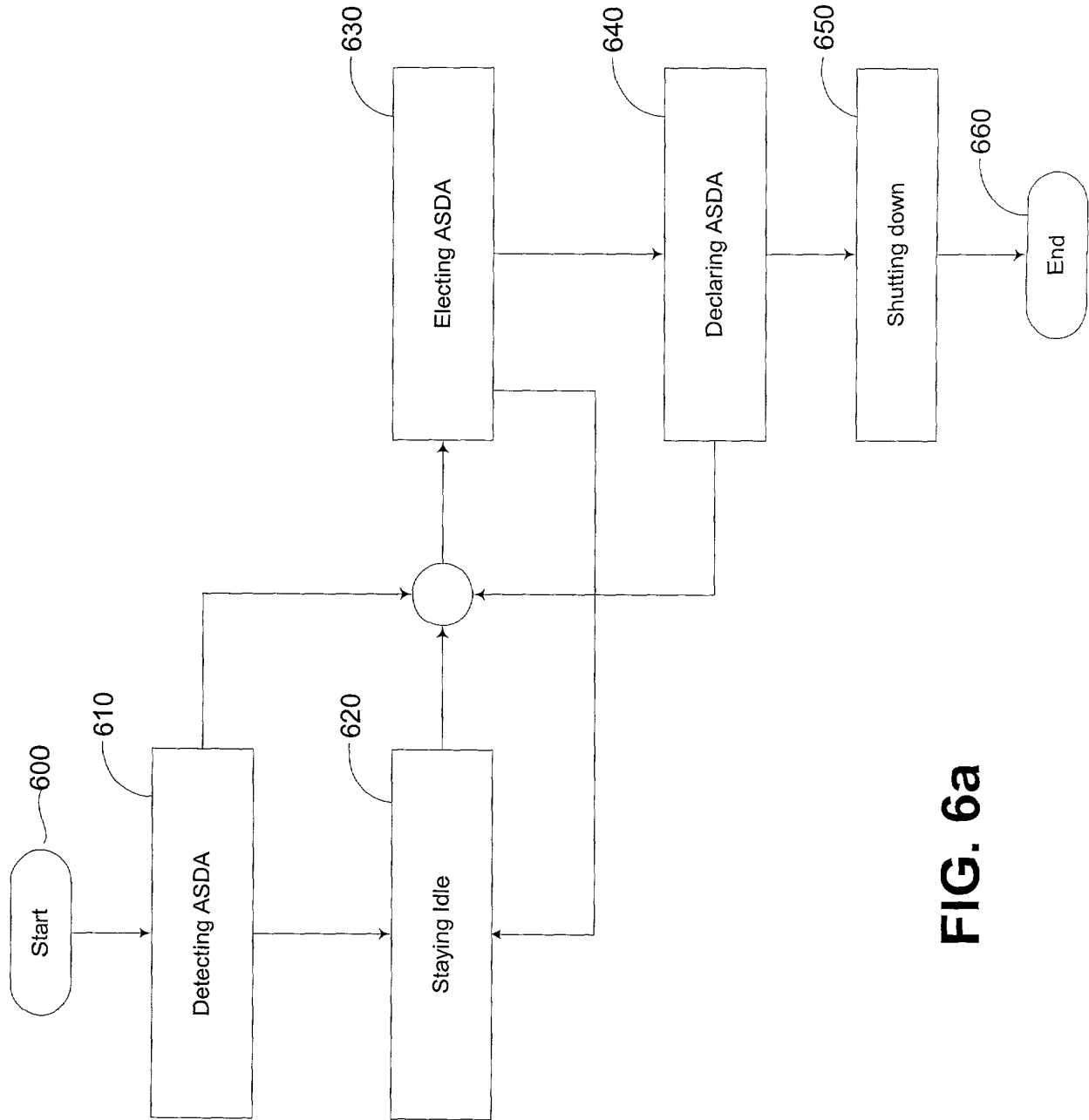


FIG. 6a

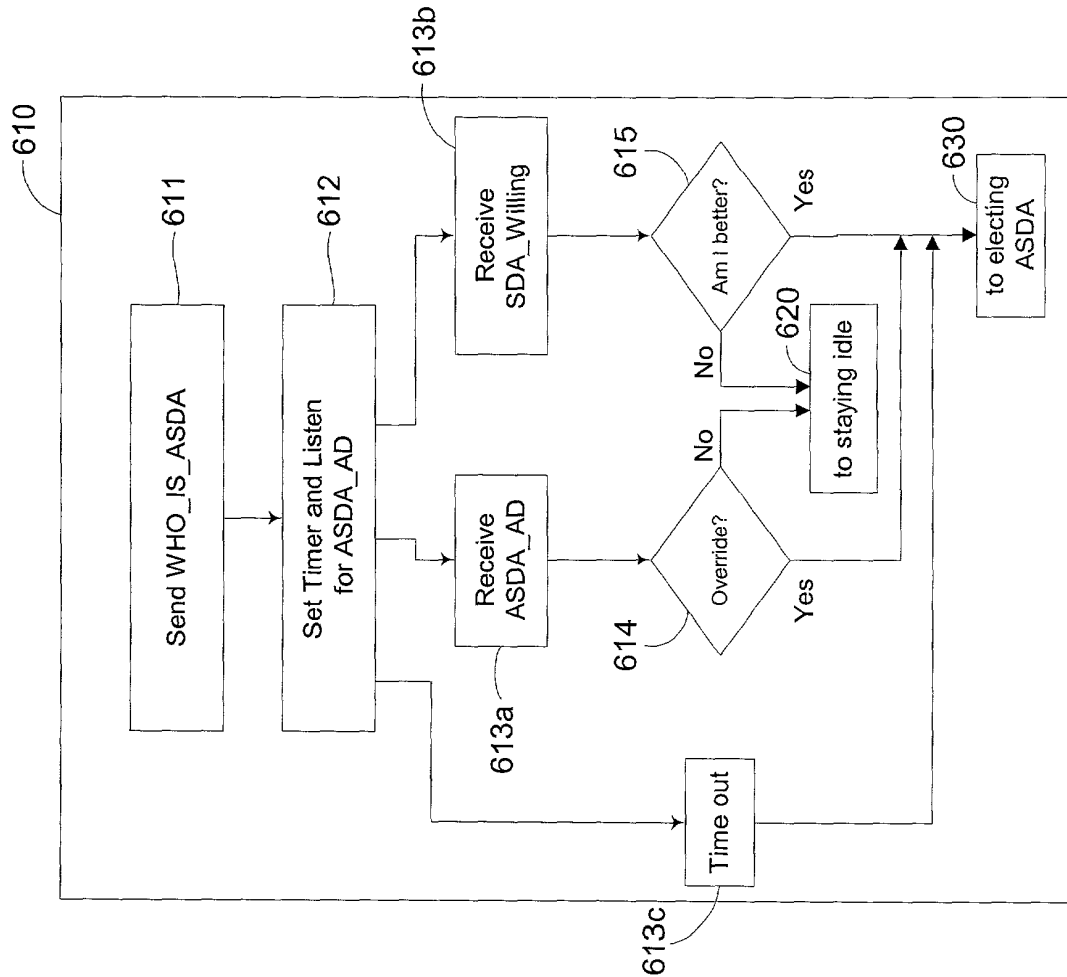


FIG. 6b

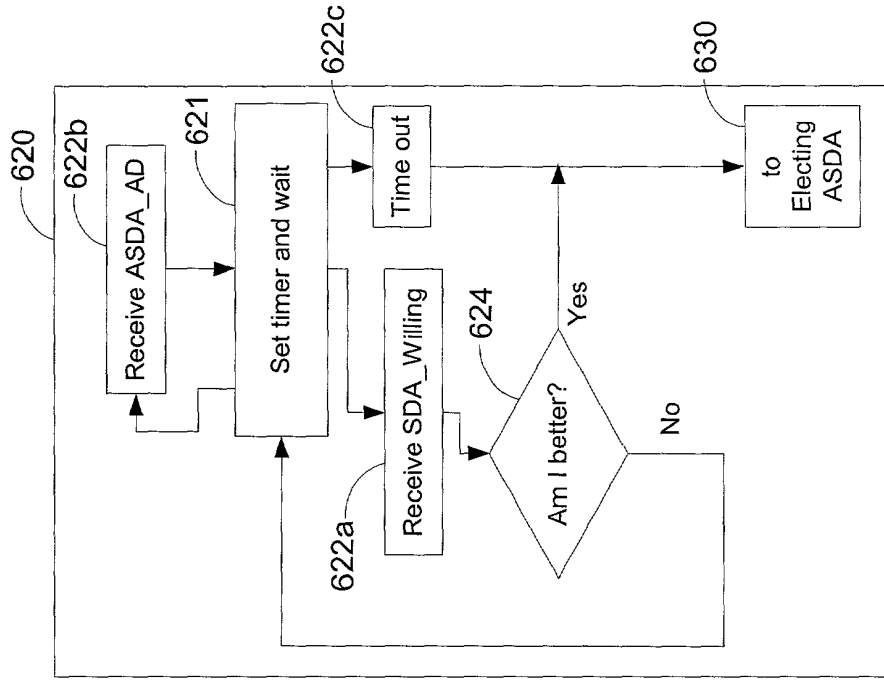
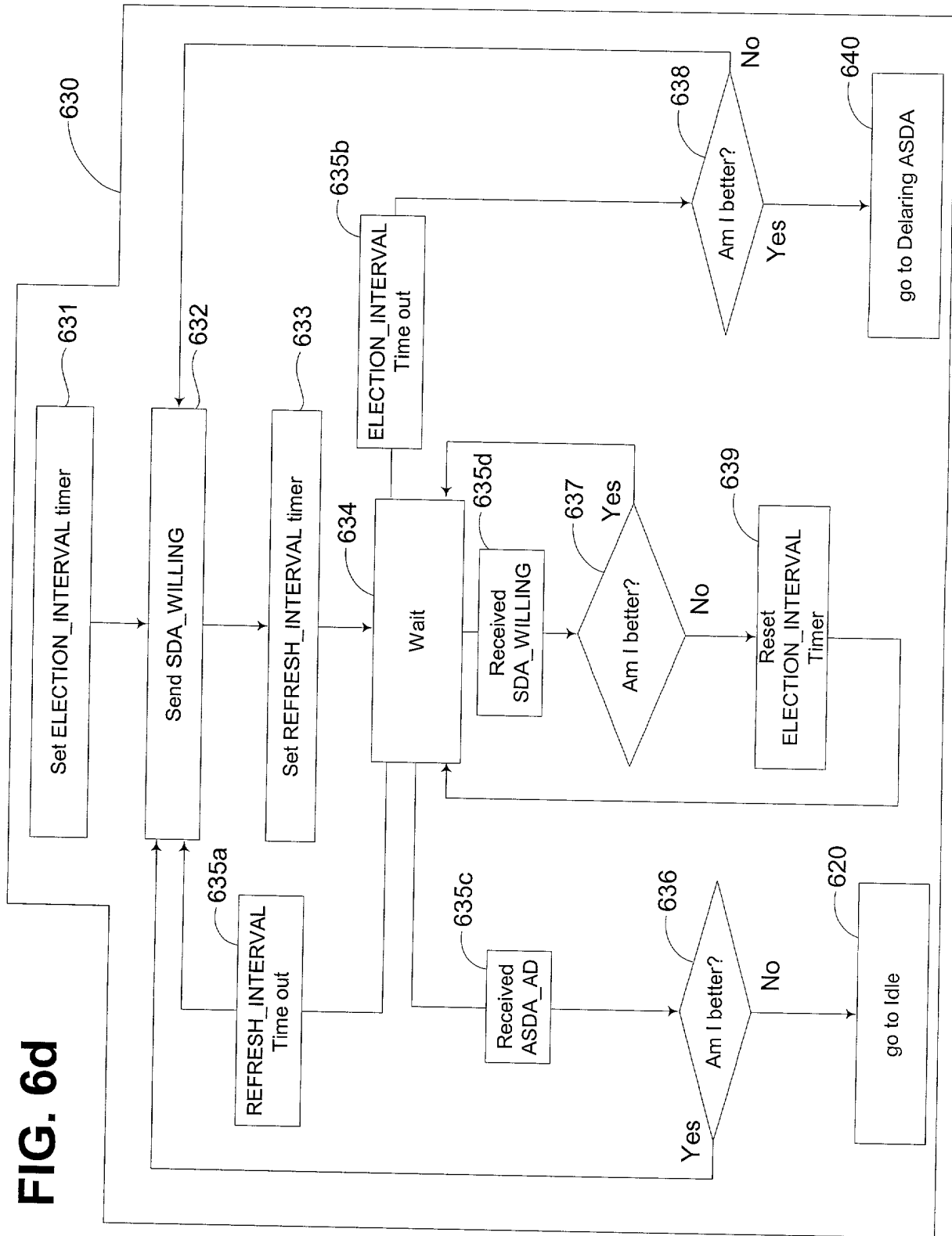


FIG. 6c

FIG. 6d



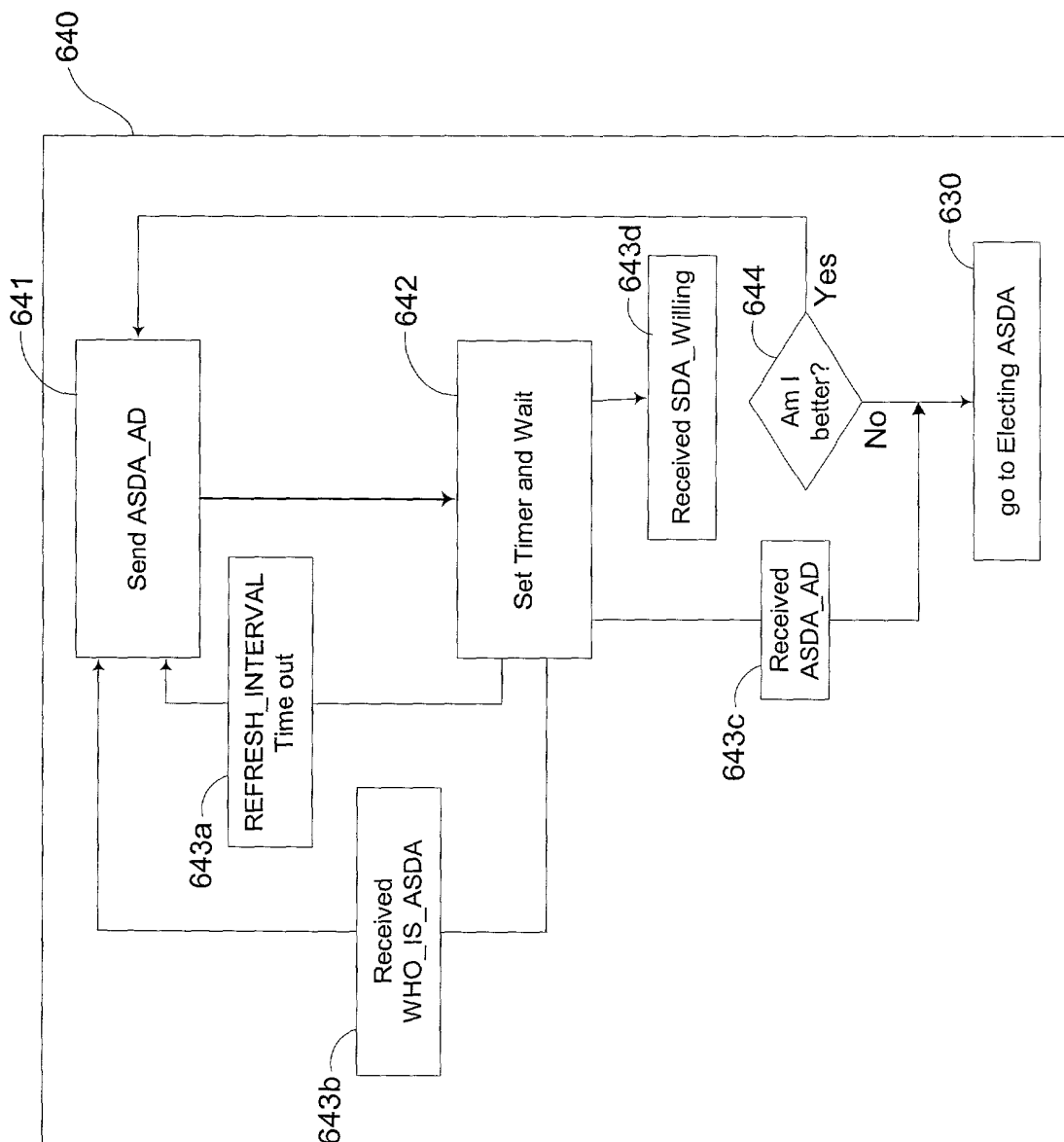


FIG. 6e

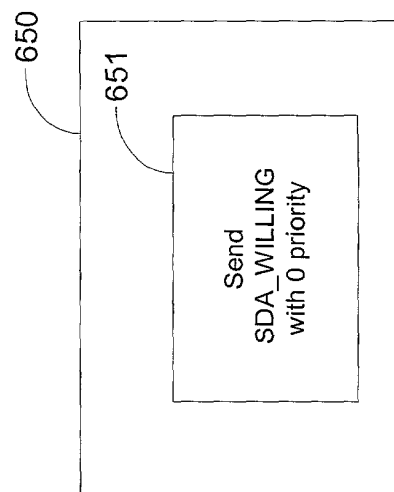


FIG. 6f

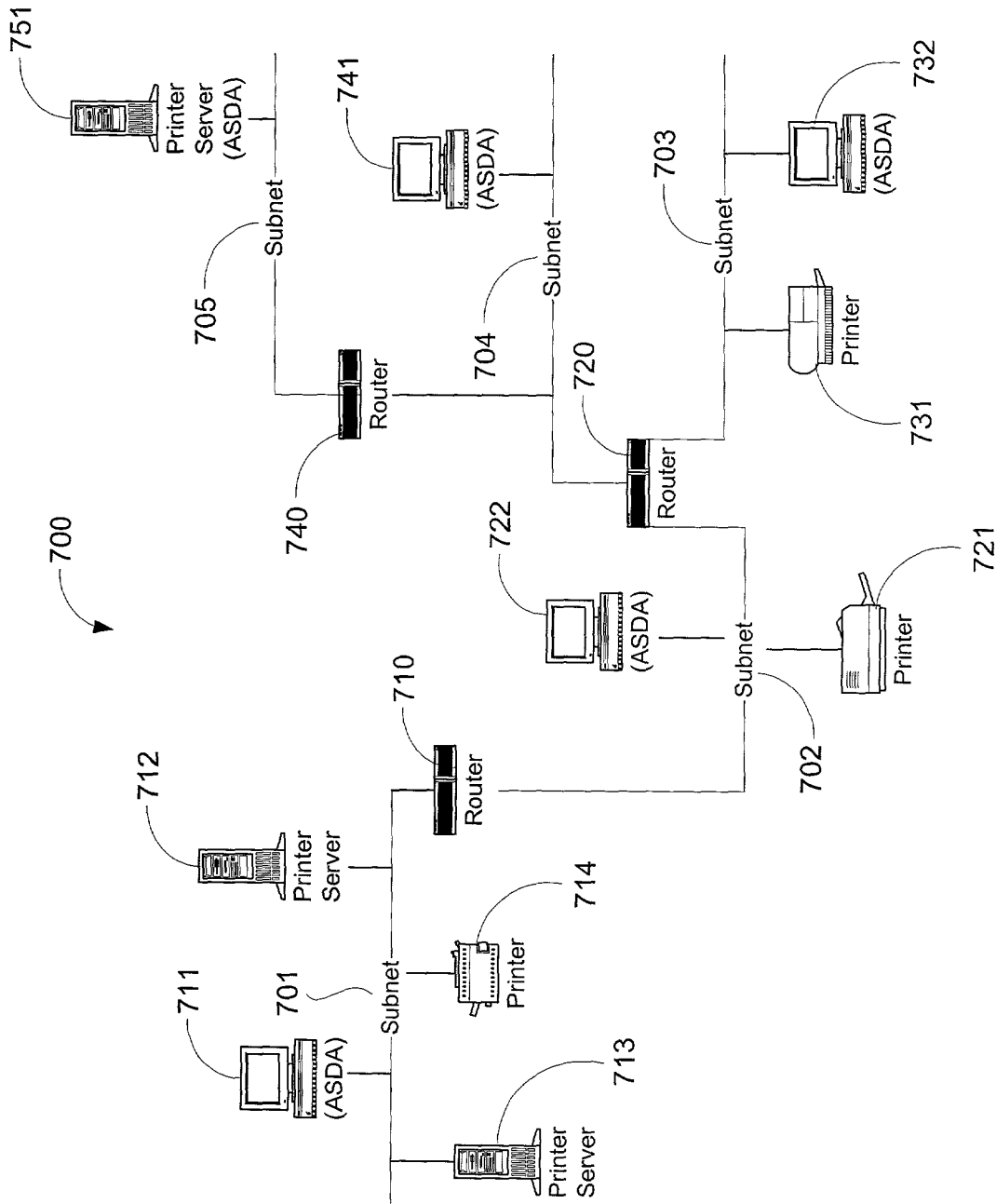


FIG. 7

	Operation	Message	Message from	Message to
801	Multicasting	WHO_IS_ASDA	Printer Server 712	Subnet 701
802	Multicasting	ASDA_AD	ASDA 711	Subnet 701
803	Unicasting	SEARCH_DEVICE	Printer Server 712	ASDA 711
804	Searching		ASDA 711	
805	Unicasting	FOUND_DEVICE	ASDA 711	Printer Server 712
806	Multicasting	WHO_IS_ASDA	ASDA 711	Subnet 702
807	Unicasting	ASDA_AD	ASDA 722	ASDA 711
808	Unicasting	SEARCH_DEVICE	ASDA 711	ASDA 722
809	Searching		ASDA 722	
810	Unicasting	FOUND_DEVICE	ASDA 722	Printer Server 712
811	Multicasting	WHO_IS_ASDA	ASDA 722	Subnets 701, 703, and 704
812	Unicasting	ASDA_AD	ASDA 711, 732, and 741	ASDA 722
813	Unicasting	SEARCH_DEVICE	ASDA 722	ASDA 732 and 741
814	Searching		ASDA 732 and 741	
815	Unicasting	FOUND_DEVICE	ASDA 732	Printer Server 712
816	Multicasting	WHO_IS_ASDA	ASDA 732	Subnets 702 and 704
817	Unicasting	ASDA_AD	ASDA 722 and 741	ASDA 732
818	Unicasting	SEARCH_DEVICE	ASDA 732	ASDA 741
819	Searching		ASDA 741	
820	Multicasting	WHO_IS_ASDA	ASDA 741	Subnets 702, 703, 705
821	Unicasting	ASDA_AD	ASDA 722, 732 and 751	ASDA 741
822	Unicasting	SEARCH_DEVICE	ASDA 741	ASDA 751
823	Searching		ASDA 751	
824	Multicasting	WHO_IS_ASDA	ASDA 751	Subnet 704
825	Unicasting	ASDA_AD	ASDA 741	ASDA 751

FIG. 8